

Maryland 4-H Aerospace Program

Challenge contestants will be selected through REGIONAL QUALIFIERS. See the back of this flier for more details.



The Maryland 4-H Aerospace Program provides youth with the opportunity to test their engineering skills and strengthen their aerospace knowledge. This program consists of regional qualifiers, a pre challenge workshop and the State 4-H Aerospace Challenge. **Youth do not have to carry an aerospace or rocketry project to participate.** All 4-H youth are eligible and encouraged to participate in one of the three qualifying events (see back). These events will determine the twelve 4-H youth in each age category who will participate in the MD 4-H Aerospace Challenge on **Sunday, July 22, 2018** at the Howard County Fairgrounds. The pre-challenge workshop will be held on **Sunday, July 15, 2018** at the Howard County Fairgrounds and will provide knowledge and teach skills beneficial for anyone facing the Challenge the following week. Information for each part of this program is provided below, along with links to the registration system.

Reach high and qualify for the
**Maryland 4-H
Aerospace Challenge**
Sunday, July 22, 2 pm-7 pm

It's a Blast!

4-H Activities Hall and Outer Parking Lot
Howard County Fairgrounds
2210 Fairgrounds Road, West Friendship, MD 21794

Each age group's rocket build will have fresh, new challenges this year to test the engineering know-how of our 4-Hers. Seniors will compete on a two-person team, but are not required to register with a teammate. (Individual seniors will be paired with another senior 4-Her upon arrival.) The two top-scoring seniors will win a trip to the National Youth Engineering Challenge in September.

For each age group, the contest will include:

- Parts Identification
- General exam on aerodynamics, model rocketry, and safety
- A build-a-rocket session using pre-selected kits and parts
- A safe rocket launch to achieve assigned mission requirements with evaluation both pre- and post-flight
- For seniors, interview judging on your rocket design and build

Challenge Fee: \$10 per participant

Get the best Challenge preparation at the
**Maryland 4-H
Aerospace Workshop**
Sunday, July 15, 2 pm-7 pm

4-H Activities Hall and Outer Parking Lot
Howard County Fairgrounds
2210 Fairgrounds Road, West Friendship, MD 21794

All of the categories of the State Challenge will be covered at the workshop, which will be led by seasoned aerospace professionals and hobbyists. No preparation is needed to attend the workshop. Study materials will be posted on our aerospace website no later than June 18 for recommended preparation before the Challenge.

Workshop fee: \$10 per participants

Registration for the **Maryland 4-H Aerospace Workshop** will be open to Qualifier winners first and will open to other interested youth if space is available. Maryland 4-H Aerospace Challenge participants will be selected and identified at the Maryland 4-H Aerospace Qualifiers.

The Volunteer Maryland 4-H Aerospace Education Team of Joe Schepis, Rich Lempicki, and Andrew and Cathy Dobos again will be running the 4-H Aerospace Workshop and Challenge on July 15 and July 22, 2018.

University of Maryland Extension programs are open to all and will not discriminate against anyone because of race, age, sex, color, sexual orientation, physical or mental disability, religion, ancestry or national origin, marital status, genetic information, political affiliation or gender identity and expression.

MARYLAND 4-H AEROSPACE QUALIFIERS

Youth who wish to participate in the Maryland 4-H Aerospace Challenge **MUST** register to attend **ONLY** one of the qualifiers below. Participants will be required to bring a launch ready rocket built by themselves to be judged on craftsmanship and prepare an aerospace presentation to deliver at the Qualifier. Additional age group information is provided below:

WESTERN REGION QUALIFIER: Saturday, June 2, 2018 from 1:00-4:00, WESTERN MARYLAND RESEARCH AND EDUCATION CENTER in Washington County.

EASTERN REGION QUALIFIER: Saturday, June 16, 2018 from 11:00-1:00, TALBOT COUNTY EXTENSION OFFICE.

CENTRAL REGION QUALIFIER: Saturday, June 16, 2018 from 1:00-4:00, BALTIMORE COUNTY EXTENSION OFFICE.

Juniors: Must bring in a rocket built by themselves, but it may be ANY type of rocket including a straw rocket, stomp rocket or rocket from a kit. The rocket should be launch ready, but may not be launched during the qualifier and should **not** include a motor. Rockets will be judged for craftsmanship. Participants will also need to prepare a 2-4 minute speech, visual presentation or demonstration about their rocket.

Intermediates: Must bring in a level 1 rocket or higher built by themselves, but it may be from a kit. The rocket should be launch ready, but may not be launched during the qualifier and should **not** include a motor. Participants will be judged on their rocket's craftsmanship, a rocket parts identification test and a 3-5 minute visual presentation prepared on an aerospace or rocketry topic of their choice.

Seniors: Must bring in a level 2 rocket or higher built by themselves, but it may be from a kit. The rocket should be launch ready, but may not be launched during the qualifier and should **not** include a motor. Participants will be judged on their rocket's craftsmanship, a rocket parts identification test, a 10 question model rocketry test and a 4-6 minute visual presentation prepared on an aerospace or rocketry topic of their choice.

Qualifier fee: \$5 per participant

Registration for Qualifier

All registrations will be handled online. Regional Qualifier registration is accessible through 4H Online. Visit the website at <https://go.umd.edu/md4honline> and log in using your family profile user name and password. Click on the Continue to Family button to access the Member List.

From the Member List page, you will find the Register a Member in an Event option at the bottom. Select the 4-H member you wish to register and then select the event from the drop down menu. You will only see the qualifier location and information that matches you county membership and 4- H age. Registration information will be displayed at the bottom of the page. There will be registration information and a liability waiver. **Fee payment can be made by check sent with a printout of your invoice sent to the Maryland 4-H Center at 8020 Greenmead Drive, College Park, MD 20740 or online at <https://form.jotform.com/72415561331146>.**

Registration for the Maryland 4-H Aerospace Qualifier will close at **May 30 (Western Qualifier)** and **June 13 (Central and Eastern Qualifier)**.

If you have any questions regarding the Maryland 4-H Aerospace Qualifiers or need special accommodations, please contact the following people for the specific qualifier location:

Western Region Qualifier- Karen Wood at 301-334-6964 or kwood125@umd.edu

Central Region Qualifier- Dwayne Murphy at 410-887-8090 or dmurphy2@umd.edu

Eastern Region Qualifier- Jocelyn Koller at 410 651-7974 or jckoller@umd.edu